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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/694,103 .	10/27/2003	James F. Zucherman	SFMT-01077USI	3095
23910 FLIESLER ME	7590 05/07/200 EYER LLP	7	EXAMINER	
650 CALIFORNIA STREET		SWIGER III, JAMES L		
14TH FLOOR SAN FRANCIS	SCO, CA 94108		ART UNIT	PAPER NUMBER
•		•	3733	
	•			
			MAIL DATE	DELIVERY MODE
•			05/07/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary 10/694,103 ZUCHERMAN ET AL.					
James L. Swiger 3733 The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed					
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WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed					
 If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 					
Status					
1)⊠ Responsive to communication(s) filed on <u>16 February 2007</u> .					
2a) This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-71</u> is/are pending in the application.					
4a) Of the above claim(s) 68-71 is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-67</u> is/are rejected.					
7) Claim(s) is/are rejected.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>10/27/2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application					
Paper No(s)/Mail Date <u>5/1/2007</u> . 6) Other:					

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DETAILED ACTION

Information Disclosure Statement

A phone call was made to Anthony Craig on May 1, 2007 to address the missing page 6 of 6 on the PTO-1449 dated 2/16/2007. Mr. Craig verified that this is a typographical error; a corrected version is enclosed herewith.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-4, 6-12, 14-20, 23-27, 29-31, and 33-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zucherman et al. (US Patent 6,048,342) in view of Brantigan (US Patent 4,834,757) and in view of Branch et al. (US Publication 2002/0016592). Zucherman et al. disclose an implant capable of being placed between spinous processes having a body (902), a spacer (1016) capable of rotation on a shaft. Note that spokes 1020 do not necessarily prevent rotation, but merely help the spacer to fit better (See Col. 23, lines 15-37). Zucherman et al. also disclose a tissue expander (1010) extending from the shaft. Zucherman et al. also disclose a spacer that has a cross-sectional shape that may be considered oval-shaped (see Fig. 93a), has a dimension that could be 8 or 10mm (see table in Column 20), and wherein the tissue expander has a generally increasing cross section as it approaches wing 1032. The spacer is also connected at an attachment (1014) and the attachment includes a device for receiving a wing (1034), and a first wing (1032). The shaft includes an attachment to which the tissue expander is molded (see Fig. 92a), the spacer (1016) is located between

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a first wing (1032) and a second wing (1004), and see Fig. 92b. Zucherman et al. also disclose an outer spacer (1016) and an inner spacer (1002) capable of being rotatable with one another, as noted above. Also the spacers' structure may be considered have flattened or slightly radiused upper and lower surfaces (see profile in Fig. 93a), and rounded edges.

Zucherman et al. disclose the claimed invention except for a tissue expander being radiolucent. Brantigan '757 teaches the incorporation of radiolucent material for improved X-ray visualization of the device (see col. 1, lines 31-36). The spacer is also capable of being at least partially radiolucent, and would allow a T-shape combined with a radiopaque wing. It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device the combination of Zucherman et al. '342 and Brantigan '757 having at least a partially radiolucent portion in view of Brantigan '757 to better allow the device to be seen during surgery in the presence of X-ray.

The combination of Zucherman '342 and Brantigan '757 disclose the claimed invention except for a portion that is at least partially radiopaque. Branch et al. "592 disclose a fusion device that is at least partially radiopaque that allows a means for viewing placement of the implant via radiography during surgery. (See par 0009). It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of the combination of Zucherman et al. '342 and Brantigan '757 having at least a portion radiopaque in view of Brantigan '342 to allow the device to be better viewed in surgery.

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Claims 2, 13, 21-22, 63, and 66 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Zucherman '342, Brantigan '757 and Branch et al. '592 as applied to claims 1, 19, and 62 above, and further in view of Brantigan '327.

The combination of Zucherman '342, Brantigan '757 and Branch et al. '592 disclose the invention described *supra* except for wherein the tissue expander and the spacer may be made at least in part of polyetherketone. Brantigan '327 teaches the use of a preferred polyether ketone in implants (see Col. 3, lines 9-15). It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of the combination of Zucherman '342, Brantigan '757 and Branch et al. '592 having at least a tissue expander or spacer made at least partially of polyether ketone in view of Brantigan '327 to better view the device in use.

Claims 5 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Zucherman '342, Brantigan '757 and Branch et al. '592 as applied to claims 1 and 19 above, and further in view of Zucherman et al. (US Publication 2001/0012938). The combination of Zucherman '342, Brantigan '757 and Branch et al. '592 the claimed invention except for a spacer having an off-center bore. Zucherman et al. '938 disclose a spacer with an off-center bore so that it may be positioned relative to the central body of the implant (see claim 15). It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of the combination of Zucherman et al. '342 and Brantigan '757 having at least an off-center bore in view of Zucherman et al. '342 to better orient the spacer in relation to the implant.

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Claims 37-41, 43-55, 57-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zucherman et al. '342 in view of Brantigan '327 and Branch et al. (US Publication 2002/0016592). Zucherman et al. disclose the invention described *supra* except for wherein the tissue expander and the spacer may be made at least in part of polyetherketone. Brantigan '327 teaches the use of a preferred polyether ketone in implants (see Col. 3, lines 9-15). It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of Zucherman et al. '342 having at least a tissue expander or spacer made at least partially of polyether ketone in view of Brantigan '327 to better view the device in use.

The combination of Zucherman et al. and Brantigan '327 disclose the claimed invention except for a portion that is at least partially radiopaque. Branch et al. "592 disclose a fusion device that is at least partially radiopaque that allows a means for viewing placement of the implant via radiography during surgery. (See par 0009). It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of the combination of The combination of Zucherman et al. and Brantigan '327 having at least a portion radiopaque in view of Brantigan '342 to allow the device to be better viewed in surgery.

Claims 42 and 56 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Zucherman et al. '342 and Brantigan '327 and Branch et al. '592 as applied to claims 37 and 47, respectively above, and further in view of Zucherman et al. '938. The combination of Zucherman et al. '342 and Brantigan '327 and Branch et al.

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'592 disclose the claimed invention except for a spacer having an off-center bore. Zucherman et al. '938 disclose a spacer with an off-center bore so that it may be positioned relative to the central body of the implant (see claim 15). It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of the combination of Zucherman et al. '342 and Brantigan '327 having an off-center bore in view of Zucherman et al. '938 to better orient the spacer in relation to the implant.

Claims 62, 64-65 and 67 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zucherman et al. '342 in view of the combination of Brantigan '757 and Branch et al. '592 Zucherman et al. discloses the claimed invention *supra* except for wherein the body is radiopaque and the tissue expander is radiolucent. Brantigan '757 teaches the use of radiolucent material (Col. 1, liens 30-37) to allow for improved visualization of the implant in use, while Branch et al. '592 teaches the use of radiopaque material for aid in placement of the implant (see par. 0009). These teachings are used together. It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of Zucherman et al. having at least radiopaque and radiolucent material in view of Branch et al. '592 and Brantigan '757 to better view the device while using it in the spinal region.

Claims 63 and 66 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Zucherman et al. '342 and Branch et al. '592 and Brantigan '757 as applied to claims 62 and 64, respectively above, and further in view of Brantigan

'327. The combination of Zucherman et al. '342 and Branch et al. '592 and Brantigan '757 disclose the claimed invention except for the use of polyetherketone in the spacer and tissue expander. Brantigan '327 teaches the use of a preferred polyether ketone in implants (see Col. 3, lines 9-15). It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of the combination of Zucherman et al. '342 and Branch et al. '592 and Brantigan '757 having at least materials made of polyether ketone in view of Brantigan '327 to better view the device in use.

Response to Arguments

Applicant's arguments filed 2/16/2007 have been fully considered but they are not persuasive. With regards to the amendments, it is still held that the structural claim limitations are met. The specific properties of the tissue expander would still provide the surgeon with the ability to view the spinous processes in an X-ray. This is considered a functional limitation of the claim and since the device would have been able to provide a substantially similar view depending on how the location is viewed. Therefore the claims still read on the prior art of record.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James L. Swiger whose telephone number is 571-272-

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5557. The examiner can normally be reached on Monday through Friday, 9:00am to 5:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JLS

EDUARDO C ROBERT SUPERVISORY PATENT EXAMINER